

CERTIFIED APPLIANCE

Certificate: **241-F-03-2**

Date Issued: 10.15.2004

Project No.: **241-F-03-2**



Issued by:

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PRODUCTS

UL 127

STANDARDS FOR FACTORY-BUILT FIREPLACES

Radiant		Heat Circulating			
Brand Name					
	Non-Insulated	Insulated	Non-Insulated	Insulated	Mobile Home
Southwest Kiva	SWK24				

Outdoor					
Brand Name					
	Non-Insulated	Insulated			
Southwest Kiva	SWK24				

REQUIREMENTS

UL 127 - 1999

Standards For Factory-Built Fireplaces

MARKINGS

All markings and printed instructions are in compliance with the above referenced requirements. Samples of the markings and instructions are contained in the main report.

FACTORY TESTS

Manufacturing and production tests are to be conducted in accordance with Section 51 of the applicable requirements.

DESCRIPTION

The Model SWK24 is series of 4 versions of pre-fabricated kiva-styled fireplaces, previously certified by Intertek Testing Services, ITS Report #3005328. The SWK24 is also similar to Models Baron 36 and Baron 42, Previously certified by O-TL (Report #241-F-01-2).

TESTS

Fireplace construction and performance were evaluated using existing ITS and O-TL data and documentation. Appropriate tests were conducted as instructed in the Standards. See project file for details

MODEL BREAKDOWN

Basic Model:	SWK24	
Prefix:	SWKL24	Laguna
	SWKS24	Sandia
	SWKH24	Hopi
	SWKSH24	Shalako

Fireplace Component	Dimensions / Materials
Firebox	Portland cement/vermiculite mixture 5" thick
Firebox Lining	1½" thick Refractory firebrick (see drawings)
Inlet Air Kit	AK4/AK4F 6" Class 0 or 1 flex duct
Grate	Standard ½" round or square bar
Doors Glass	5 mm tempered
Internal Baffles	22 ga (.030") Min. Galvanized Steel
Damper Blade	14 ga (.075") ALZD
Flue, Inner	28 ga (.015") Min. Type 430 SS, seamed
Flue, Outer	26 ga (.018") Min. Galvanized Steel (12¾" dia.)

Flue System: DESA FMI 8DM, Firecraft Technologies FTF8, Heatilator SL300 air-cooled flue components; 14' minimum height with maximum 1 (30°) offset; 22' minimum height with 2 (30°) offset(s); 80' maximum height

Mobile Home: Not evaluated for mobile home installations

Outdoor: Not evaluated for outdoor installations

Clearances to combustibile materials

Unexposed areas	Inches	Millimeters
Casing to backwall	2	51
Casing to sidewall	2	51
Outer Flue to combustibile	2	51

Exposed areas	Inches	Millimeters
Opening to sidewall	18	458
Opening to mantel	12	305

CONSTRUCTION

SECTION		SUBJECT / REQUIREMENT	RESULTS
UL 127	ULC-S610		
6.1		Materials, general	Complies
6.2		Air duct system	Complies
7.1		Assembly, general	Complies
7.2		Joints	Complies
7.3		Firestop spacers	Complies
7.4		Support assembly	Complies
7.5		Radiation shield	Complies
7.6		Flue damper	Complies
7.7		Chimney caps	Complies
7.8		Roof assemblies	Complies
7.9		Firescreens	Complies
		Hearth	Complies
7.10		Chimney elbows	Complies
7.11		Gas pipe provision	Complies
7.12		Air duct system	Complies
		Doors	Complies
7.13		Handles	Complies
7.14		Integral grates	Complies
7.15		Openings in chimney walls	Complies

FIREPLACES FOR USE IN MANUFACTURED HOMES

SECTION		SUBJECT / REQUIREMENT	RESULTS
UL 127	ULC-S610		
26.1		General / Installation	dna
		Dampers	
26.2		Chimney Assembly Termination	
26.3		Spark arrester	
26.4		Combustion air inlet	

PERFORMANCE

SECTION		SUBJECT / REQUIREMENT	RESULTS
UL 127	ULC-S610		
11.1		Preconditioning tests	Extended
11.2		Thermal shock test	Extended
11.3		Temperature test - 1700°F flue gases	Extended
11.4		Temperature test - 2100°F flue gases	Extended
12		Radiant Fire Test	Complies
13		Brand Fire Test	Complies
14		Flash Fire Test	Complies
14A		Unvented Decorative Log Temperature Test	dna

SECTION		SUBJECT / REQUIREMENT	RESULTS
UL 127	ULC-S610		
15		Support Test	Complies
16		Fire Chamber Strength Test	Complies
17.1		Chimney Strength Test - General	Extended
17.2		Impact test	Extended
17.3		Longitudinal force test	Extended
17.4		Load test for chimney elbows	Extended
17.5		Chimney joint load test	Extended
17.6		Chimney joint torsion test	Extended
18		Wind Load Test	Extended
19		Rain Test	Extended
		Asbestos Fiber Content	Extended
20		Crushing Test, Flue Conduit/Insulation	Extended
21		Acid Resistance, Flue Gas Conduit	Extended
22		Freeze/Thaw	Extended
23		Cemented Joint Test of Flue Gas Conduit	Extended
24		Sulfuric Acid Extraction Test	Extended
		Condensing Sulfur Dioxide	Extended
25.1		Glazing Test - general	Complies
25.2		Impact test	Complies
25.3		Water shock test	Complies
		Vibration (insulated chimneys)	Extended
		Accelerated Corrosion	Extended

FIREPLACES FOR USE IN MANUFACTURED HOMES

SECTION		SUBJECT / REQUIREMENT	RESULTS
UL 127	ULC-S610		
26.5	11.1	Test structure / installation	dna
10	11.2	Temperature measurement	
26.7	11.3	Rough Usage	
26.6.4-5	11.4	Carbon monoxide test	

REVISION INDEX

Southwest Firebird, Incorporated

<u>Rev #</u>	<u>Date</u>	<u>Letter/Rpt #</u>	<u>Change</u>	<u>Page #</u>	<u>Init</u>
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SECTION III: LABELS

-----		Label, Serial Number Rating Plate
-----		Clearance Warning Label
-----		Installation Warning Label

SECTION IV: MANUALS

1 - 15	-----		Installation Instructions
1 - 8	-----		Operating Instructions

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Manufacturer's tolerances have not been verified.